

PATENT
Attorney Docket No. 224436

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ISHIBASHI et al.

Application No. Unassigned

Group Art Unit: Unassigned

Filed: September 16, 2003

Examiner: Unassigned

For: METHOD FOR SELECTIVELY
SEPARATING LIVE CELLS
EXPRESSING A SPECIFIC GENE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date

of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

- after** (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes *one* of:
 - the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
 - or*
 - the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
- after** the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
- after** the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and **within** thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.

Copies of the References

- Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3).
- A copy of the foreign search report is enclosed herewith.
- The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status (<i>check one</i>)		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1. 09/775,818	February 5, 2001		X	
2.				
3.				

Statement under 37 CFR 1.97(e)

- The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- The **undersigned** hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Statement under 37 CFR 1.704(d)

- The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Fees

- No fee** is owed by the applicant(s).
- The **IDS Fee of \$180** under 37 CFR 1.17(p) is enclosed herewith.

Method of Payment of Fees

- Attached is a check in the amount of \$. . . Charge Deposit Account No. 12-1216 in the amount of \$. . . (A duplicate copy of this communication is enclosed for that purpose.)

Authorization to Charge Additional Fees

- If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

In re Appln. of ISHIBASHI et al.
Application No. Unassigned

Instructions as to Overpayment

Credit Account No. 12-1216.
 Refund



Xavier Pillai, Reg. No. 39,799
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Date: September 16, 2003

Please type a plus sign (+) inside this box →

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

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Complete if Known

Application Number	Unassigned
Filing Date	September 16, 2003
First Named Inventor	ISHIBASHI et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned

Attorney Docket Number 224436

U.S. PATENT DOCUMENTS

Examiner Initials	Doc. No.	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
		Application or Patent Number	Kind Code			
	A 1	6,562,343		Levinson	5-2003	
	A 2	5,776,782		Tsuji	8-1998	
	A 3	4,996,143		Heller et al.	2-26-91	
	A 4	5,225,326		Bresser et al.	7-6-93	
	A 5	5,728,527		Singer et al.	3-17-98	
	A 6	5,985,549		Singer et al.	11-16-99	
	A 7	5,629,147	A	Asgari et al.	5/1997	
	A 8	6,228,592	B1	Tsuji et al.	5-2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Doc. No.	Foreign Patent Document			Name of Patentee or Applicant	Date of Publication	Translation	
		Office	Application or Patent Number	Kind Code			Yes	No**
	A 9	JP	11-285386		Bunshi Bio Photonics Kenkyusho	10/19/99		
	A 10	PCT	WO93/23570		Cook et al.	11/25/93		
	A 11	PCT	WO98/13524		Sato et al.	4/2/98		
	A 12	PCT	WO98/33897		Iida	8/6/98		
	A 13	JP	130793/2000 Notice of Rejection					

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.		Translation
		Yes	No**	
	A 14	Separation of Cells (1993) pp. 89-94, Ch. 8, Cell Sorting		
	A 15	J.R. Lakowicz, "Principles of Fluorescence Spectroscopy", Plenum Press, New York, pp. 305-309 (1983).		
	A 16	Cardullo et al., "Detection of Nucleic Acid Hybridization by Nonradiative Fluorescence Resonance Energy Transfer", Proc. Natl. Acad. Sci. USA, Vol. 85, pp. 8790-8794, 12/88.		
	A 17	Mergny et al., "Fluorescence Energy Transfer as a Probe for Nucleic Acid Structures and sequences", Nucleic Acids Research, Vol. 22, No. 6, pp. 920-928, 1994.		
	A 18	Sixou et al., "Intracellular Oligonucleotide Hybridization Detected by Fluorescence Resonance Energy Transfer (FRET)", Nucleic Acids Research, Vol. 22, No. 4, pp. 662-668, 1994.		
	A 19	Leonetti et al., "Intracellular Distribution of Microinjected Antisense Oligonucleotides", Proc. Natl. Acad. Sci. USA, Vol. 88, pp. 2702-2706, 4/91.		
	A 20	Fisher et al., "Intracellular Disposition and Metabolism of Fluorescently-Labeled Unmodified and Modified Oligonucleotides Microinjected into Mammalian Cells", Nucleic Acids Research, Vol. 21, No. 16, pp. 3857-3865, 1993.		
	A 21	Sokol et al., "Real Time Detection of DNA-RNA Hybridization in Living Cells", Proc. Natl. Acad. Sci USA, Vol. 95, pp. 11538-11543, 9/98.		
	A 22	Zobel et al., "Cationic Polyhexylcyanoacrylate Nanoparticles as Carriers for Antisense Oligonucleotides"		
	A 23	J.R. Lakowicz, "Principles of Fluorescence Spectroscopy", Ch. 10, pp. 303-339, (1983), Plenum Press, New York.		

Examiner Signature

Date Considered

* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).